

A CONTRIBUTION TO THE CLASSIFICATION OF THE  
COCCIDÆ.\*

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MONOPHLEBINÆ.

*Monophlebus*, Leach.

*Monophlebus*, Leach, in Westwood, Arc. Ent. i. (1845), p. 22.  
Type, *atripennis*.

*Guerinia*, Targ.-Tozz., in Signoret, Ann. Soc. Ent. France, 1875, p. 352. Type, *serratulæ*.

*Drosicha*, Walker, List Homop. Brit. Mus. Supp. (1858), p. 306. Type, *contrahens*.

*Tessarobelus*, Montrouzier, Ann. Soc. Linn. Lyon, xi. (1864), p. 246. Type, *guerinii*.

*Llaveia*, Signoret, Ann. Soc. Ent. France, 1875, p. 370.  
Type, *axin*.

*Ortonia*, Signoret, Ann. Soc. Ent. France, 1875, p. 367 (not *Ortonia*, Wood, 1869). Type, *uhleri*.

*Protortonia*, Townsend, Jn. N. Y. Ent. Soc. 1898, p. 169.  
Type, *primitivus*.

♀. Soft, somewhat elongated, more or less hairy, with powdery or cottony secretion. Legs and antennæ present; antennæ 11- (sometimes 9-) jointed; no long posterior ovisac. One species has 7-jointed antennæ.

♂. With fleshy caudal processes, arranged along the sides of the abdomen.

*Species*.—*M. dubius*, Fabr. (*fabricii*, Westw.), Sumatra; *M. atripennis*, Klug, Java; *M. leachi*, Westw., Malabar; *M. saundersi*, Westw., India; *M. burmeisteri*, Westw., India (?); *M. zeylanicus*, Green, Ceylon; *M. contrahens*, Signoret, China; *M. maskelli*, Ckll. (*burmeisteri*, Maskell, Tr. N. Z. Inst. xxix. p. 327), Japan; *M. corpulentus*, Kuwana, Japan.

*M. illigeri*, Westw., Tasmania; *M. crawfordi*, Maskell, Australia; *M. fuscus*, Maskell, Australia; *M. guerinii*, Montr., New Caledonia.

*M. serratulæ*, Fabr., Algeria; *M. fortis*, Ckll., Natal; *M. fulleri*, Ckll., Natal; *M. raddoni*, Westw., W. Africa.

*M. axin*, Llave, Mexico; *M. primitivus*, Townsend, Mexico; *M. mexicanorum*, Ckll., Mexico; *M. bowvari*, Signoret, Guatemala; *M. uhleri*, Signoret, Ecuador; *M. championi*, Ckll., Panama; *M. cacti*, Linné, St. Eustatius Island, Lesser Antilles.

Unfortunately, many of the species are known only in one sex. The genus may be divided into a number of sections, thus:—

(1.) *Monophlebus*, Leach. Male with two caudal appendages. *M. atripennis*, *M. dubius*.

\* For tables of subfamilies and genera, see 'Canadian Entomologist,' October, 1899.

(2.) *Tessarobelus*, Montr. Male with four caudal appendages. *M. guerinii*, *M. championi*.

(3.) *Llaveia*, Sign. Male with eight caudal appendages; female antennæ 11-jointed. *M. axin*, *M. saundersii*.

(4.) *Drosicha*, Walk. Male with ten caudal appendages; female antennæ 9-jointed. *M. contrahens*, *M. maskelli*, *M. leachii*, *M. burmeisteri*.

(5.) *Monophlebulus*, Ckll. Female with antennæ 7-jointed. *M. fuscus*.

*Stigmatococcus*, Hempel.

*Stigmatococcus*, Hempel, Rev. Mus. Paulista, iv. (1900), p. 399. Type, *asper*.

*Perissopneumon*, Newstead, Ent. Mo. Mag. 1900, p. 250. Type, *ferox*.

♀. Antennæ and legs present; antennæ 7- to 8-jointed; abdomen with numerous marginal spiracles. Found in nests of ants.

*Species*.—*S. asper*, Hempel, Brazil; *S. ferox*, Newstead, India.

*Lophococcus*, Cockerell.

*Lophococcus*, Ckll., 'Entomologist,' 1901, p. 227. Type, *mirabilis*.

♀. Fixed, with a strongly chitinous skin, and a long erect spine on the middle of the back, this spine originating as an elevated fold of the skin. No ovisac.

*Species*.—*L. mirabilis*, Ckll., Natal; on *Mimosa*.

*Palæococcus*, Cockerell.

*Palæococcus*, Ckll., Canad. Entom. 1894, p. 36. Type, *fuscipennis*.

*Crypticerya*, Ckll., Psyche Suppt., 1895, p. 15. Type, *rosæ*.

*Leachia*, Signoret, Ann Soc. Ent. France, 1875, p. 359 (not *Leachia*, Risso). Type, *fuscipennis*.

♀. Soft, convex, without an ovisac; genital aperture large, considerably anterior to the end of the body; antennæ with 9 to 11 joints.

♂. Without caudal fleshy tassels.

*Species*.—*P. fuscipennis*, Burm., Europe; *P. hellenicus*, Genadius, Atica; *P. irregularis*, Germ., *P. pinnatus*, Germ., and *P. trivenosus*, Germ., fossil in Prussian amber.

*P. australis*, Maskell, Australia; *P. nudata*, Maskell, Australia.

*P. ewarti*, Newstead, W. Africa.

*P. braziliensis*, Walker, Buenos-Ayres; *P. hempeli*, Ckll., Brazil; *P. rosæ*, Riley-Howard, West Indies, &c.; *P. mexicanus*, Cockerell—Parrott, Mexico; *P. townsendi*, Ckll., New Mexico; *P. plucheæ*, Ckll., New Mexico; *P. simplex*, Scudder, fossil at Florissant, Colorado.

Section *Mimosicerya*, Ckll. Female antennæ 9-jointed; skin strongly chitinous at the sides. *P. hempeli*.

(To be continued.)